



## Standard Features

- Module design
- User configurable and custom designed to meet changing applications
- Meets advanced pharma compliance including user/password management for security, audit trail function logs and integrated alibi memory
- Q-guide enables tasks and work (MSA display)
- Electrically conductive coating on glass panels of draft shield
- RS-232 and USB communication
- Easy cleaning by removing glass doors
- Underweigh hook included
- Draft shield
- Choice of display
- MSE-large LCD display and easy menu system
- MSU-monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader, auto leveling feature
- MSA-TFT color touchscreen, Ethernet and SD card reader, auto leveling feature

## Optional Features

- DA motor-driven draft shield
- DI draft shield eliminates electrostatic charges

## Specifications

|                       | 225S  | 225P              | 125P          | 324S      | 224S      | 324P           | 124S      | 524S      | 524P           |
|-----------------------|---|-------------------|---------------|-----------|-----------|----------------|-----------|-----------|----------------|
| <b>MSE*</b> Part#     | 109776  | 109777            | 109778        | 109779    | 109780    | 109781         | 109782    | 156269    | 156270         |
| List Price            | Consult   | Consult           | Consult       | Consult   | Consult   | Consult        | Consult   | Consult   | Consult        |
| <b>MSU**</b> Part#    | 109783  | 109786            | 109788        | 109794    | 109790    | 109791         | 109792    | 156267    | 156268         |
| List Price            | Consult   | Consult           | Consult       | Consult   | Consult   | Consult        | Consult   | Consult   | Consult        |
| <b>MSA***</b> Part#   | 109795  | 109796            | 109797        | 109798    | 109799    | 109800         | 109801    | 156265    | 156266         |
| List Price            | Consult   | Consult           | Consult       | Consult   | Consult   | Consult        | Consult   | Consult   | Consult        |
| Capacity              | 220 g   | 60/120/220 g      | 60/120 g      | 320 g     | 220 g     | 80/160/320 g   | 120 g     | 520 g     | 120/240/520 g  |
| Resolution            | 0.01 mg   | 0.01/0.02/0.05 mg | 0.01/0.1 mg   | 0.1 mg    | 0.1 mg    | 0.1/0.2/0.5 mg | 0.1 mg    | 0.1 mg    | 0.1/0.2/0.5 mg |
| Weighing Modes        | Grams, Kilograms, Carat, Pounds, Ounces, Troy Ounce, Tael Hong Kong, Tael Singapore, Tael Taiwan, Grain, Pennyweight, Milligram, Parts per Pound, Tael China, Mommies, Austrian Carat, Tola, Baht, Mesghal, Ton, Pound:Ounces, Newton, Micrograms   |                   |               |           |           |                |           |           |                |
| Operating Modes       | Mass Unit Conversion, SQ Min Function, ISO-Cal Function, Density Determination (Buoyancy method only with MSE), Calculation, Averaging, Formulation, Percent Weighing, Totalizing, Counting, Customized Identification, Statistics, Time Control Function, Second Tare Memory, Over/Under Checkweighing |                   |               |           |           |                |           |           |                |
| Repeatability         | 0.025 mg  | 0.015/0.04 mg     | 0.015/0.06 mg | 0.1 mg    | 0.07 mg   | 0.1/0.2/0.4 mg | 0.1 mg    | 0.1 mg    | 0.1/0.2/0.5 mg |
| Linearity             | 0.1 mg  | 0.15 mg           | 0.15 mg       | 0.3 mg    | 0.2 mg    | 0.5 mg         | 0.2 mg    | 0.4 mg    | 0.5 mg         |
| Stabilization Time    | 2 seconds   | 2 seconds         | 2 seconds     | 1 seconds | 1 seconds | 1 seconds      | 1 seconds | 1 seconds | 1 seconds      |
| Operating Temperature | 41° F to 104° F (5° C to 40° C)   |                   |               |           |           |                |           |           |                |
| Weighing Chamber      | (W x D x H) 8 x 8 x 10.2 in (205 x 205 x 261 mm)  |                   |               |           |           |                |           |           |                |
| Pan Size(W x D)       | 3.3 x 3.3 in (85 x 85 mm)   |                   |               |           |           |                |           |           |                |
| Dimensions            | (W x D x H) 16 x 9.8 x 14.6 in (410 x 249 x 370.4 mm) (with manual draft shield)  |                   |               |           |           |                |           |           |                |
| Weight (Approx.)      | 18 lb   |                   |               |           |           |                |           |           |                |
| Est. Ship Weight      | 31.9 lb   |                   |               |           | 29.7 lb   |                |           |           |                |
| Calibration Weight    | 200 g   | 200 g             | 100 g         | 300 g     | 200 g     | 300 g          | 100 g     | 500 g     |                |
| Power                 | 120V AC adapter auto ranging  |                   |               |           |           |                |           |           |                |
| Warranty              | Two-year Limited Warranty   |                   |               |           |           |                |           |           |                |
| Return Policy         | Sartorius Standard Policy - restock fee may apply   |                   |               |           |           |                |           |           |                |

\*MSE large LCD display and easy-to-use menu system

\*\*MSU monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*MSA TFT color touchscreen, Ethernet and SD card reader

## Part Number/Price

| Part #    | Model #        | Description                                | Price   |
|-----------|----------------|--|---------|
| 109776*   | MSE225S-100-DU | 220 g x 0.01 mg                            | Consult |
| 109777*   | MSE225P-100-DU | 60 g/120 g/220 g x 0.01 mg/0.02 mg/0.05 mg | Consult |
| 109778*   | MSE125P-100-DU | 60 g/120 g x 0.01 mg/0.1 mg                | Consult |
| 109779*   | MSE324S-100-DU | 320 g x 0.1 mg                             | Consult |
| 156269    | MSE524S-100-DU | 520 g x 0.1 mg                             | Consult |
| 156270    | MSE524P-100-DU | 520 g/240 g/120 g x 0.5 mg/0.2 mg/0.1 mg   | Consult |
| 109780*   | MSE224S-100-DU | 220 g x 0.1 mg                             | Consult |
| 109781*   | MSE324P-100-DU | 80 g/160 g/320 g x 0.1 mg/0.2 mg/0.5 mg    | Consult |
| 109782*   | MSE124S-100-DU | 120 g x 0.1 mg                             | Consult |
| 109783**  | MSU225S-100-DU | 220 g x 0.01 mg                            | Consult |
| 109786**  | MSU225P-100-DU | 60 g/120 g/220 g x 0.01 mg/0.02 mg/0.05 mg | Consult |
| 109788**  | MSU125P-100-DU | 60 g/120 g x 0.01 mg/0.1 mg                | Consult |
| 156267    | MSU524S-100-DU | 520 g x 0.1 mg                             | Consult |
| 156268    | MSU524P-100-DU | 520 g/240 g/120 g x 0.5 mg/0.2 mg/0.1 mg   | Consult |
| 109794**  | MSU324S-100-DU | 320 g x 0.1 mg                             | Consult |
| 109790**  | MSU224S-100-DU | 220 g x 0.1 mg                             | Consult |
| 109791**  | MSU324P-100-DU | 80 g/160 g/320 g x 0.1 mg/0.2 mg/0.5 mg    | Consult |
| 109792**  | MSU124S-100-DU | 120 g x 0.1 mg                             | Consult |
| 109795*** | MSA225S-100-DU | 220 g x 0.01 mg                            | Consult |
| 109796*** | MSA225P-100-DU | 60 g/120 g/220 g x 0.01 mg/0.02 mg/0.05 mg | Consult |
| 109797*** | MSA125P-100-DU | 60 g/120 g x 0.01 mg/0.1 mg                | Consult |
| 156265    | MSA524S-100-DU | 520 g x 0.1 mg                             | Consult |
| 156266    | MSA524P-100-DU | 520 g/240 g/120 g x 0.5 mg/0.2 mg/0.1 mg   | Consult |
| 109798*** | MSA324S-100-DU | 320 g x 0.1 mg                             | Consult |
| 109799*** | MSA224S-100-DU | 220 g x 0.1 mg                             | Consult |
| 109800*** | MSA324P-100-DU | 80 g/160 g/320 g x 0.1 mg/0.2 mg/0.5 mg    | Consult |
| 109801*** | MSA124S-100-DU | 120 g x 0.1 mg                             | Consult |

\*Large LCD display and easy-to-use menu system

\*\*Monochrome graphic display, positive click on keys to activate functions, Ethernet and SD card reader

\*\*\*TFT color touchscreen, Ethernet and SD card reader

## Options/Accessories

| Part #  | Model # | Description   | Price   |
|---------|---------|---|---------|
| Consult | DA      | Automatic motorized draft shield for analytical balances (factory installed)                          | Consult |
| Consult | DI      | Automatic motorized draft shield for analytical balances, with integrated ionizer (factory installed) | Consult |
| Consult | TR      | Certificate of compliance and full factory test report (factory installed)                            | Consult |
| Consult | IR      | Additional RS-232, 25-pin connection (factory installed)  | Consult |
| 156906  | 6971987 | Power supply, 100-240V  | Consult |
| 156908  | 6900900 | Cord, power 220V EU   | Consult |
| Consult | IB      | Bluetooth® wireless interface   | Consult |
| Consult | IP      | Additional RS-232, nine-pin connection with PS2 port  | Consult |